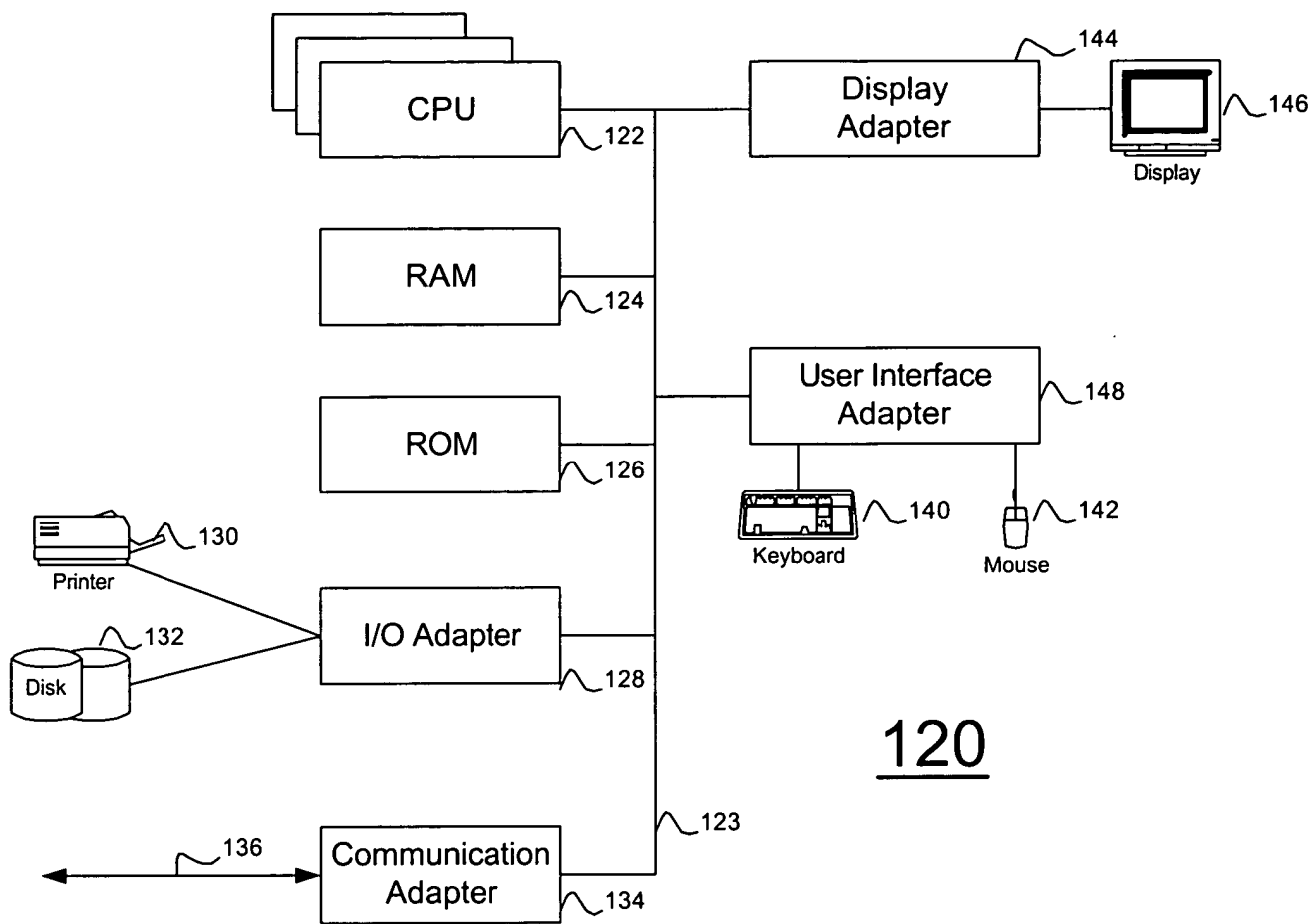
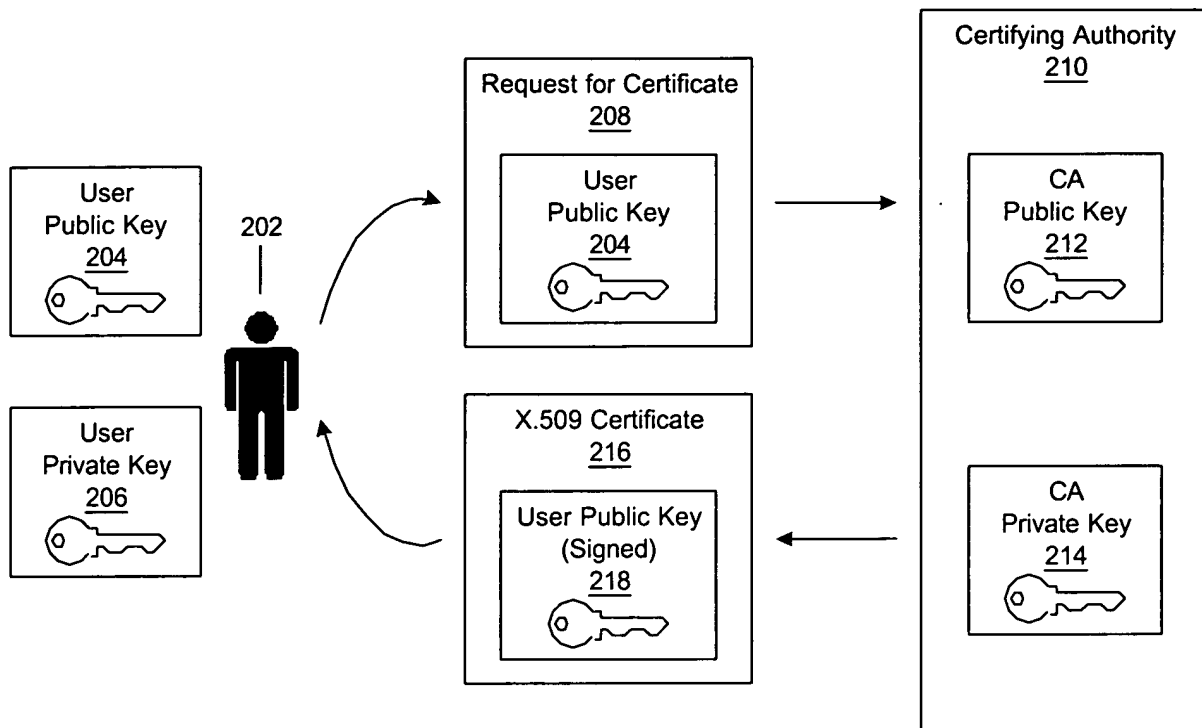


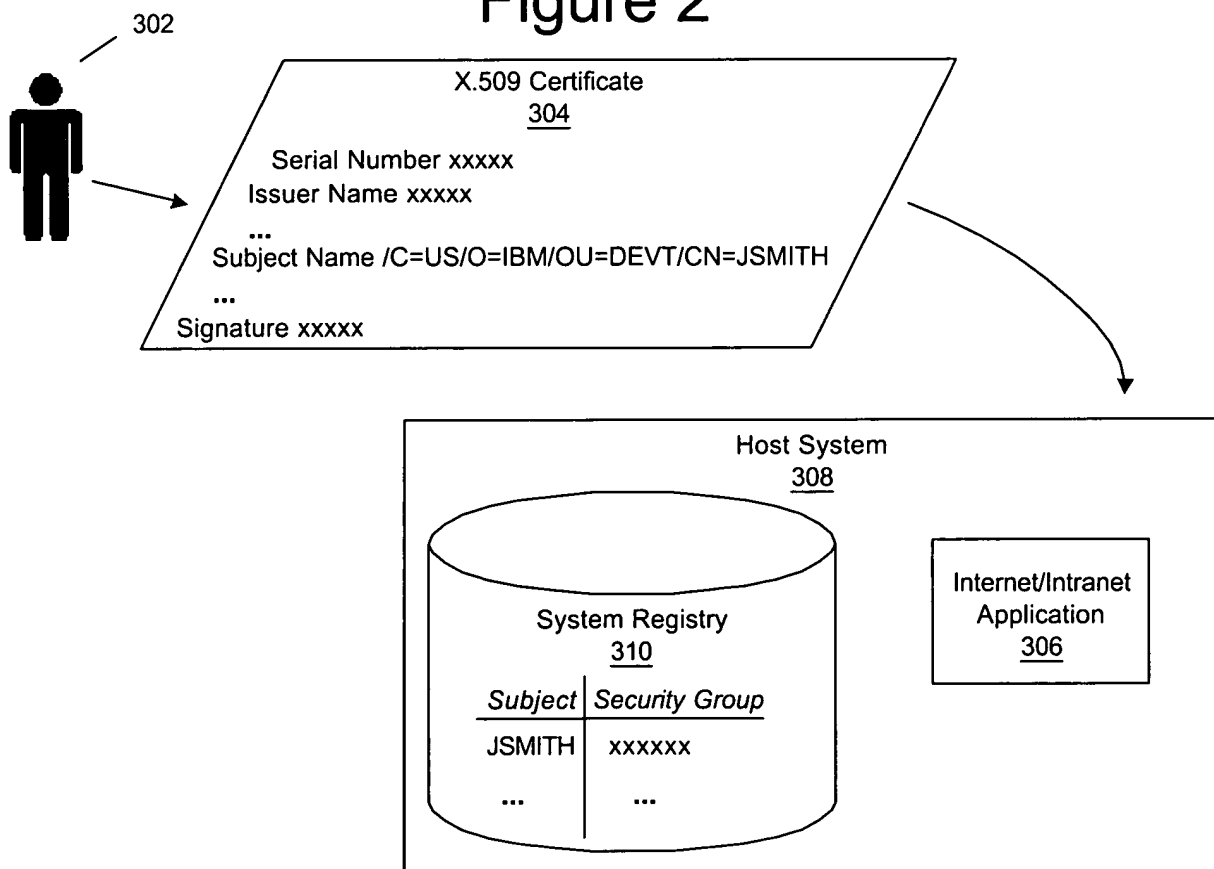
Prior Art  
Figure 1A



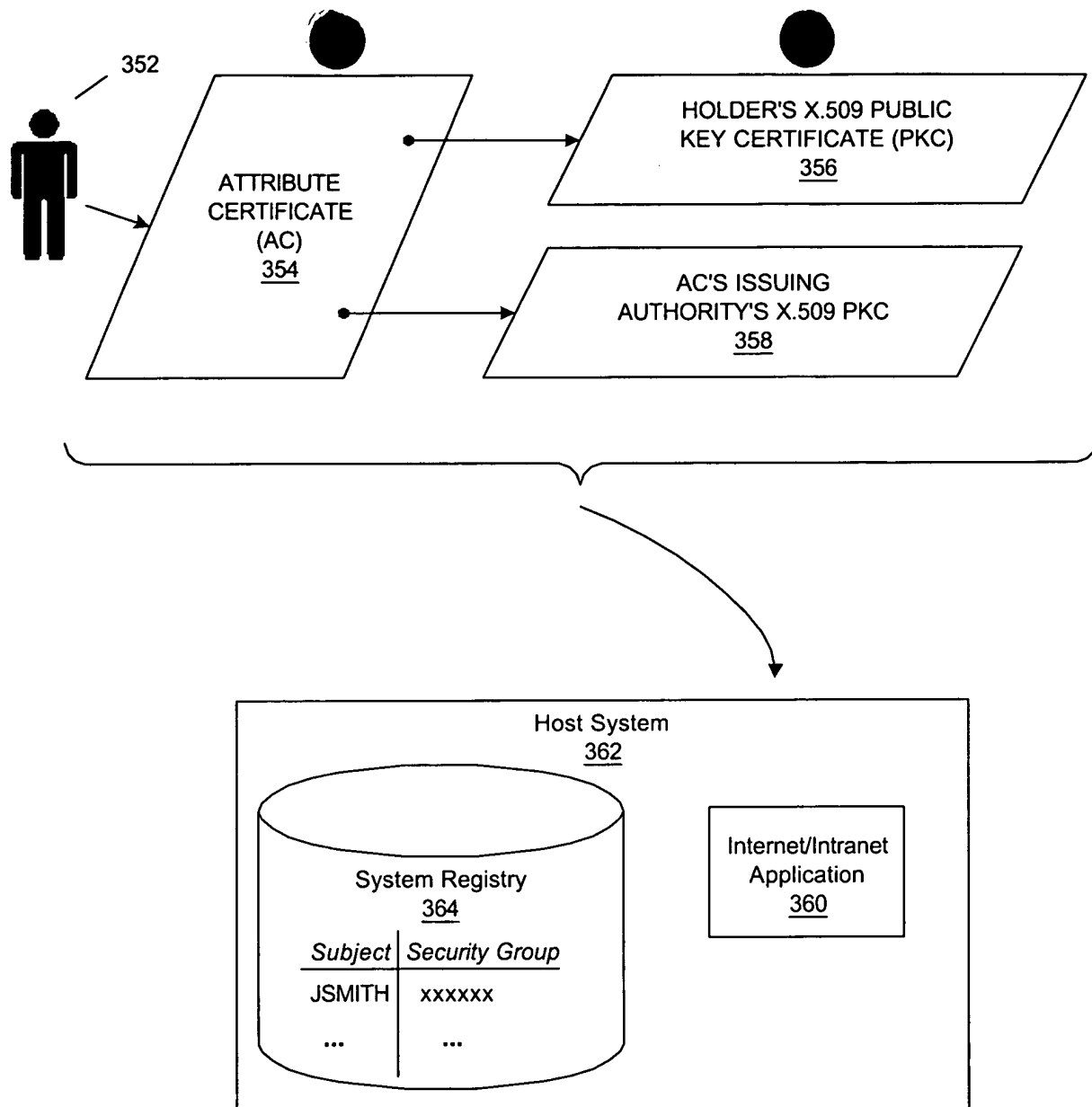
Prior Art  
Figure 1B



Prior Art  
Figure 2



Prior Art  
Figure 3A



Prior Art  
Figure 3B



```

Certificate ::= SEQUENCE {
    tbsCertificate TBSCertificate,
    signatureAlgorithm AlgorithmIdentifier,
    signature BIT STRING }

TBSCertificate ::= SEQUENCE {
    version [0] Version DEFAULT v1,
    serialNumber CertificateSerialNumber,
    signature AlgorithmIdentifier,
    issuer Name,
    validity Validity,
    subject Name,
    subjectPublicKeyInfo SubjectPublicKeyInfo,
    issuerUniqueID [1] IMPLICIT UniqueIdentifier OPTIONAL,
    subjectUniqueID [2] IMPLICIT UniqueIdentifier OPTIONAL,
    extensions [3] Extensions OPTIONAL }

Version ::= INTEGER { v1(0), v2(1), v3(2) }

CertificateSerialNumber ::= INTEGER

Validity ::= SEQUENCE {
    notBefore Time,
    notAfter Time }

Time ::= CHOICE {
    utcTime UTCTime,
    generalTime GeneralizedTime }

UniqueIdentifier ::= BIT STRING

SubjectPublicKeyInfo ::= SEQUENCE {
    algorithm AlgorithmIdentifier,
    subjectPublicKey BIT STRING }

Extensions ::= SEQUENCE SIZE (1..MAX) OF Extension

Extension ::= SEQUENCE {
    extnID OBJECT IDENTIFIER,
    critical BOOLEAN DEFAULT FALSE,
    extnValue OCTET STRING }

```

Prior Art  
Figure 5A

```

AttributeCertificate ::= SEQUENCE {
    acinfo      AttributeCertificateInfo,
    signatureAlgorithm AlgorithmIdentifier,
    signatureValue BIT STRING
}

AttributeCertificateInfo ::= SEQUENCE {
    version      AttCertVersion DEFAULT v1,
    holder        Holder,
    issuer        AttCertIssuer,
    signature      AlgorithmIdentifier,
    serialNumber   CertificateSerialNumber,
    attrCertValidityPeriod AttCertValidityPeriod,
    attributes     SEQUENCE OF Attribute,
    issuerUniqueID UniqueIdentifier OPTIONAL,
    extensions     Extensions OPTIONAL
}

AttCertVersion ::= INTEGER { v1(0), v2(1) }

Holder ::= SEQUENCE {
    baseCertificateID [0] IssuerSerial OPTIONAL,
    -- the issuer and serial number of
    -- the holder's Public Key Certificate
    entityName [1] GeneralNames OPTIONAL,
    -- the name of the claimant or role
    objectDigestInfo [2] ObjectDigestInfo OPTIONAL
    -- if present, version must be v2
}

ObjectDigestInfo ::= SEQUENCE {
    digestedObjectType ENUMERATED {
        publicKey (0),
        publicKeyCert (1),
        otherObjectTypes (2) },
    -- otherObjectTypes MUST NOT
    -- be used in this profile
    otherObjectTypeID OBJECT IDENTIFIER OPTIONAL,
    digestAlgorithm AlgorithmIdentifier,
    objectDigest BIT STRING
}

```

Prior Art  
Figure 5B

```

AttCertIssuer ::= CHOICE {
    v1Form  GeneralNames -- v1 or v2
    v2Form  [0] V2Form    -- v2 only
}

```

```

V2Form ::= SEQUENCE {
    issuerName      GeneralNames OPTIONAL,
    baseCertificateID [0] IssuerSerial OPTIONAL,
    objectDigestInfo [1] ObjectDigestInfo OPTIONAL
    -- at least one of issuerName, baseCertificateID
    -- or objectDigestInfo MUST be present}

```

```

IssuerSerial ::= SEQUENCE {
    issuer      GeneralNames,
    serial      CertificateSerialNumber,
    issuerUID   UniqueIdentifier OPTIONAL
}

```

```

AttCertValidityPeriod ::= SEQUENCE {
    notBeforeTime GeneralizedTime,
    notAfterTime  GeneralizedTime
}

```

```

Attribute ::= SEQUENCE {
    type      AttributeType,
    values    SET OF AttributeValue
    -- at least one value is required
}

```

AttributeType ::= OBJECT IDENTIFIER

AttributeValue ::= ANY DEFINED BY AttributeType

## Priort Art Figure 5C

```

PKClocator ::= SEQUENCE {
    holderPKClocator   [0]   GeneralNames OPTIONAL,
    authorityPKClocator [1]   GeneralNames OPTIONAL
}

```

wherein GeneralNames is defined by IETF RFC2459 as

GeneralNames ::= SEQUENCE SIZE (1..MAX) OF GeneralName

```

GeneralName ::= CHOICE {
    otherName          [0]   OtherName;
    rfc822Name         [1]   IA5String,
    dNSName            [2]   IA5String,
    x400Address        [3]   ORAddress,
    directoryName      [4]   Name,
    ediPartyName       [5]   EDIPartyName,
    uniformResourceIdentifier [6] IA5String,
    iPAddress          [7]   OCTET STRING,
    registeredID       [8]   OBJECT IDENTIFIER
}

```

## Figure 6



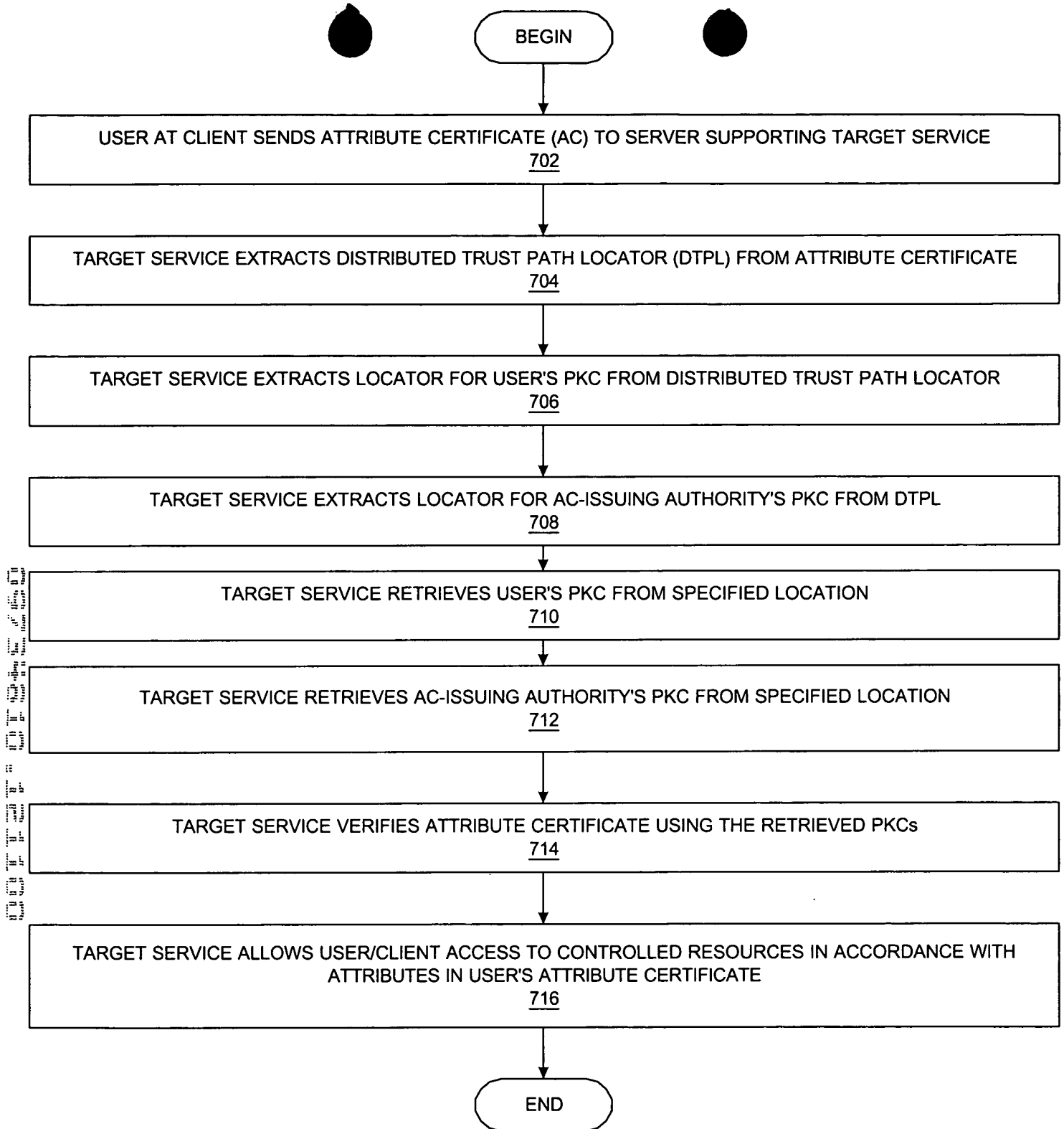


Figure 7